

Substitution for form 1449A/PTO OCT 30 2007 INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known		
			Application Number	09/501,622	
			Filing Date	02/09/2000	
			First Named Inventor	Mills	
			Group Art Unit	1745	
			Examiner Name	Kalafut	
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Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee of Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
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				Examiner Name	Kalafut
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		28. Mills et al., "Spectral Emission of Fractional Quantum Energy Levels of Atomic Hydrogen from a Helium-Hydrogen Plasma and the Implications for Dark Matter," Int. J. Hydrogen Energy, (2002), Vol. 27, No. 3, pp. 301-322. (Internet Publication Date: Aug. 1, 2001.)	
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		Letter from Shelby T. Brewer to The Honorable James E. Rogan, December 21, 2001 and PTO response from Jason C. Roe, April 24, 2002 (see Attachment A)		
		PARK, "Patent Nonsense, Court Denies Blacklight Power Appeal," What's New, September 6, 2002, www.aps.org.WN/WN02/wn090602.html (see Attachment C)		
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		VOSS, "New Physics' Finds a Haven At the Patent Office," Science, Vol. 284, pp. 1252-1254, May 21, 1999 (see Attachment D)		
		PTO Memorandum For All Employees: Media Contact Policy from Acting Assistant Secretary of Commerce and Acting Commissioner of patents and Trademarks, June 22, 1999		
		Letter from Jeffrey S. Melcher to Ms. Esther Kepplinger, February 28, 2000 (see Attachment G)		
		Internet Discussion Forum, "Two Brand New Papers out at BLP's "What's New" page," message No. 7191 on Hydrino Study Group, http://groups.yahoo.com/group/hyrino/message/7191 , September 27, 2003 (see Attachment H)		
		Internet Discussion Forum, "Even Skeptics can lose Objectivity," message No. 7410 on Hydrino Study Group, http://groups.yahoo.com/group/hyrino/message/7410 , October 27, 2003 (see Attachment H)		
		Internet Discussion Forum, "Two Competing Views of Reality Engage in a Battle for Total Control of Oour Physics Paradigm," Hydrino Study Group, http://www.hydrino.org (see Attachment H)		
		Internet Discussion Forum, "Zimmerman's APS Centennial Meeting Talk," Transcript from Tom Stolper, November 10, 2003 (see Attachment H)		
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		Internet Discussion Forum, "Zimmerman's APS Centennial Meeting Talk," Transcript from Peter Zimmerman and Tom Stolper, October 29, 2003 (see Attachment H)		
		Internet Discussion Forum, "Zimmerman's APS Centennial Meeting Talk," Transcript from Tom Stolper, October 28, 2003 (see Attachment H)		
		Internet Discussion Forum, "HSG: Even skeptics can lose objectivity," Transcript from Steve Menton, October 26, 2003 (see Attachment H)		
		Internet Discussion Forum, "HSG: Zimmerman's Insincere Questions," Transcript from Peter Zimmerman and Steve Menton, September 25, 2003 (see Attachment H)		
		Internet Discussion Forum, "Re: Re: Zero Electrostatic Self-Interaction Justified," Transcript from Peter Zimmerman, May 22, 2003 http://groups.yahoo.com/group/hydrino/message/6052 (see Attachment H)		
		Internet Discussion Forum, "HSG: Re: Bool Review by Dr. John Farrell," Transcript from Peter Zimmerman, February 23, 2004 (see Attachment H)		
		"Regarding PZ's Departing Post," includes many public posts on hydrino study group. pp 1-75 (see Attachment I)		
		PARK, "Perpetual Motion: Still Going Around," Special to the Washington Post, January 12, 2000, Page H03 (see Attachment J)		
		Letter from Jeffrey S. Melcher to Ms. Esther Kepplinger with Attachments A-E, January 19, 2001 (see Attachment K)		
		PLATT, "Testing the Current," The Washington Post, June 25, 2000, Page X05 (see Attachment M)		
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		USPTO Communication re Interview scheduled for February 21, 2003, February 12, 2001(see Attachment N)	
		Letter from Senator Ron Wyden to The Honorable Todd Q. Dickinson with attachments, April 5, 2000 (see Attachment O)	
		Letter from Senator Robert G. Torricelli to Nicholas P. Godici with attachments, July 20, 2001(see Attachment O)	
		Letter from Senator Jon S. Corzine to The Honorable Todd Q. Dickinson with attachments, August 2, 2001 (see Attachment O)	
		Letter from Senator Max Cleland to Ms. Jane Cooksey with attachments, March 24, 2000 (see Attachment O)	
		Letter from Senators Max Cleland and Ron Wyden to Chairman Patrick Leahy, December 20, 2001 (see Attachment O)	
		Letter from Senators Max Cleland and Ron Wyden to The Honorable Donald L. Evans, December 20, 2001 (see Attachment O)	
		Letter from Senators Jon S. Corzine and Robert G. Torricelli to The Honorable Donald L. Evans, December 21, 2001 (see Attachment O)	
		Email re Interview Summary from Jeffrey Simenauer to Ted Liu, February 13, 2003 (see Attachment P)	
		"APS E-Board Passes Resolution on Perpetual Motion Machines," APS NEWS ONLINE, August/September 2002, http://www.eps.org/aps/apsnews/0802/080212.html (see Attachment Q)	
Examiner Signature			Date Considered

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/501,622
				Filing Date	02/09/2000
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	34	of	34	Attorney Docket Number	

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Letter from Elizabeth Barlow to John Allen, March 17, 2004 (see Attachment R)	
		Letters from John Allen to Office of Counsel, US Department of Commerce with attachments, May 12, 2003, June 7, 2003, and March 10, 2004 (see Attachment R)	
Examiner Signature			Date Considered



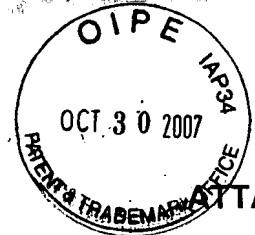
ATTACHMENT A

		Date(s)	Compensation Arrangements	Cash Payments Made	Options Issued	Shares Owned
AKHTAR (Employee)	Dr. Kamran	-	Employee Salary	-	EE Options Only	None
BALDWIN (NASA)	Dr. R.	-	-	-	None	None
BONIFACE (Chalk River Labs)	Dr. H.A.	-	-	-	None	None
BRADFORD (PSU Student)	Dr. Michael	9/13/1994	Ad Hoc/ One-time Only	9/13/1994	None	None
CHANG (Employee)	Dr. Zhixiang	-	Employee Salary	-	EE Options Only	None
CHEN (EE & Consultant)	Dr. Chun-Ku	6/1/04-5/31/05	\$50/hour	2/7/2005	EE Options Only	None
CHEN (Employee)	Dr. Xuemin	-	Employee Salary	-	EE Options Only	None
CLARK (INP Greifswald)	Dr. H.R.	-	-	-	None	None
CONRADs (INP Greifswald transferred agrmnt to Conrad)	Dr. Johannes	8/4/99-9/23/05	2 wire transfers	2/14/00 6/12/01	Options granted from 9/9/96 to 8/5/97; some options expired; some options exercised 9/7/06	Some options exercised 9/7/06
CRAIG	Dr. W.Y.	-	-	-	None	None
CRAW-IVANCO (Chalk River Labs)	Dr. M.T.	-	-	-	None	None
DAYALAN (Employee)	Dr. Ethirajulu	-	Employee Salary	-	EE Options Only	None
DHANDAPANI (Employee)	Dr. Bala	-	Employee Salary	-	EE Options Only	None
DONG (EE & Consultant)	Dr. Jinquan	7/30/03-1/31/04 2/1/04-7/31/04 11/16/04-5/1/505	\$35/hour \$45/hour \$45hour	2/28/02 8/20/03	EE Options Only	None
ECHEZURIA (Employee)	Alejandra	-	Employee Salary	-	EE Options Only	None
FRALICK (Semitech)	Dr. G.C.	-	-	-	None	None
FUELLING (U Nevada)	Dr. Stephan	-	-	-	None	None
GAMBERALE	Luca	-	-	-	None	None
GERNERT (Thermacore)	Dr. N.J.	-	-	-	None	None
GOOD (EE & Officer)	William	-	Employee Salary	-	EE & Officer Options Issued Beginning 9/1/92	Shares Owned Beginning 1991

GREENIG (EE & Consultant)	Nelson	11/1/01-10/31/02 11/1/02-10/31/03 3/8/04-3/7/05 3/8/05-3/7/06 3/8/06-3/7/07 3/8/07-3/7/08	\$50/hour \$50/hour \$50/hour \$50/hour \$50/hour \$50/hour	7/19/95 4/27/01 10/14/02	EE Options Only	None
HALDEMAN (MIT Lincoln Labs)	Dr. C.W.	-	-	-	None	None
HE (Employee)	Dr. Jiliang	-	Employee Salary	-	EE Options Only	None
HICKS (Employee)	Steven	-	Employee Salary	-	EE Options Only	None
HILBORN (Chalk River Labs)	Dr. J.W.	-	-	-	None	None
ISELER (MIT Lincoln Labs)	Dr. G.W.	-	-	-	None	None
JACOX (INEL)	Dr. Michael	-	-	-	Options granted 9/9/96 to 3/3/97; all options expired	None
JANSSON (Rowan U)	Dr. Peter M.	6/10/02-10/31/02 (contract)	\$100 \$10	10/17/97 12/31/2002	None	Purchased shares 7/2/97; gifted to ex-wife and son 5/1/07
KNEIZYS	S.	-	-	-	None	None
KRYUKOV (Moscow Power Engineering Institute)	Dr. A.P.	-	-	-	None	None
KURTZ (PSU)	Dr. Stewart	-	-	-	Options granted 9/9/96 to 11/8/02; some expired	None
LEE (U of Ohio)	Dr. Jang-Jung	-	-	-	None	None
LU (EE & Consultant)	Dr. Ying	8/6/01 5/9/03-5/16/03 5/27/03-5/30/03 5/30/03-6/30/03 7/1/03-7/31/03 8/1/03-1/30/04	\$100/hour \$80/hour \$80/hour \$45/hour \$45/hour \$45/hour	10/01/01 5/23/03	EE Options Only	None
MARCHESE (Rowan U)	Dr. Anthony J.	6/10/02-10/31/02 (contract)	\$10 non-material	12/31/2002	None	None
MAYO (EE & Consultant)	Dr. Robert	6/8/01-8/8/01	\$50/hour	7/23/2001	EE Options Only	None
MEYERS (NASA)	Dr. I.	-	-	-	None	None
MILLER (Lehigh U)	Dr. Alfred	-	\$250	6/12/1997	Options granted 9/9/96 to 3/3/97; all options expired	None

MILLS (EE & Director)	Dr. Randell	-	Employee Salary	-	EE & Director Options Issued Beginning 9/9/96	Shares Owned Beginning 1991
NANSTEEL (EE & Consultant)	Dr. Mark W.	3/30/05-3/29/06 3/30/06-3/29/07 3/30/07-8/31/08	\$80/hour \$80/hour \$80/hour	8/24/2005	EE Options Only	None
NESTEROV (Moscow Power Engineering Institute)	Dr. S.B.	-	-	-	None	None
NIEDRA (NASA)	Dr. J.	-	-	-	None	None
NONINSKI (Brookhaven)	Dr. V.	-	-	-	None	None
ONUMA (Employee)	Dr. Takeyoshi	-	Employee Salary	-	EE Options Only	None
PACIFICORP		-	-	-	Options granted 4/7/97 to 4/27/98; some options expired	Purchased shares 9/20/96 & 7/2/97; transferred all shares to ScottishPower Ventures, Inc. 6/21/07
PETERSON (Westinghouse)	Dr. S.H.	-	-	-	None	None
PHILLIPS (PSU, UNM, LANL)	Dr. Jonathan	2/1/96-1/31/97 1/1/97-4/30/97 3/15/00-3/18/00 10/8/01-4/8/02 4/8/02-10/8/02 10/9/02-10/8/03 10/9/03-10/8/04 10/9/04-10/8/05 10/9/05-10/8/06 10/9/06-10/8/07	\$100/hour Options Only \$5,000 \$125/hour \$125/hour \$125/hour \$100/hour \$100/hour \$100/hour \$100/hour	4/26/95 5/9/00	Options granted 9/9/96-1/14/06; some options exercised	Some options exercised 9/1/06 & 2/20/07
RAY (Employee)	Dr. Paresh	-	Employee Salary	-	EE Options Only	None
SANKAR (EE & Consultant)	Dr. Jayasree	3/17/03-3/16/04 3/22/04-3/21/05	\$50/hour \$50/hour	-	EE Options Only	None
SAVOYE (MIT Lincoln Labs)	Dr. G.W.	-	-	-	None	None
SCHARER (U Wisconsin)	Dr. John	1/5/05-1/4/06 1/5/06-1/4/07 1/5/07-1/4/08	\$800/day \$100/hour \$110/hour	11/14/2005	None	None
SCHMALZEL (Rowan U)	Dr. John L.	6/10/02-10/31/02 (contract)	\$10 non-material	12/31/2002	None	None
SHANNON (Employee)	Tina	-	Employee Salary	-	EE Options Only	None
SHAUBACH (Thermacore)	Dr. R.M.	-	-	-	None	None
SIMMONS (Lehigh U)	Dr. G.	-	-	-	None	None
TREMBLAY (Chalk River Labs)	Dr. R.P.	-	-	-	None	None

TURNER (Spectral Data)	Dr. Gary L.	-	-	-	None	None
VOIGT (EE & Consultant)	Dr. Andreas	8/27/04-8/26/05	\$50/hour	-	EE Options Only	None
WATTS (INEL)	Dr. K.D.	-	-	-	None	None
WEISMANN	Dr. H.	-	-	-	None	None
WIESMANN	Dr. H.	-	-	-	-	-
WRUBEL (INP Greifswald)	Dr. Th.	-	-	-	None	None
ZEA (Employee)	Dr. Hugo	-	Employee Salary	-	EE Options Only	None



ATTACHMENT B

MASTER LIST OF CITED AND SUBMITTED DOCUMENTS

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Internet Discussion Forum, "Zimmerman's APS Centennial Meeting Talk," Transcript from Tom Stolper, October 28, 2003 (see Attachment H)
Internet Discussion Forum, "HSG: Even skeptics can lose objectivity," Transcript from Steve Menton, October 26, 2003 (see Attachment H)
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Letter from Senator Robert G. Torricelli to Nicholas P. Godici with attachments, July 20, 2001(see Attachment O)
Letter from Senator Jon S. Corzine to The Honorable Todd Q. Dickinson with attachments, August 2, 2001 (see Attachment O)
Letter from Senator Max Cleland to Ms. Jane Cooksey with attachments, March 24, 2000 (see Attachment O)
Letter from Senators Max Cleland and Ron Wyden to Chairman Patrick Leahy, December 20, 2001 (see Attachment O)
Letter from Senators Max Cleland and Ron Wyden to The Honorable Donald L. Evans, December 20, 2001 (see Attachment O)
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/501,622
				Filing Date	02/09/2000
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	1		2	Attorney Docket Number	

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examine r Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	74	R. L. Mills, P. C. Ray, R. M. Mayo, M. Nansteel, B. Dhandapani, J. Phillips, "Spectroscopic Study of Unique Line Broadening and Inversion in Low Pressure Microwave Generated Water Plasmas," Journal of Plasma Physics, Vol. 1, Part 6, (2005), 877–888. (Web Publication Date: June 18, 2003.)	
	80	R. L. Mills, "The Fallacy of Feynman's Argument on the Stability of the Hydrogen Atom According to Quantum Mechanics," Annales de la Fondation Louis de Broglie, Vol. 30, No. 1 (2005), pp. 129–151. (Web Publication Date: Jan. 27, 2003.)	
	94	R. L. Mills, "The Nature of the Chemical Bond Revisited and an Alternative Maxwell Approach," Physics Essays, Vol. 17, (2004), 342–389. (Web Publication Date: Aug. 6, 2004.)	
	96	J. Phillips, C.K. Chen, R. L. Mills, "Evidence of the Production of Hot Hydrogen Atoms in RF Plasmas by Catalytic Reactions Between Hydrogen and Oxygen Species," J. Plasma Physics, submitted. (Web Publication Date: Sept. 12, 2003.)	
Examiner Signature			Date Considered

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	100	R. Mills, B. Dhandapani, J. He, "Highly Stable Amorphous Silicon Hydride from a Helium Plasma Reaction," Materials Chemistry and Physics, 94/2-3, 298-307. (Web Publication Date: Nov. 17, 2003.)	
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				Application Number	09/501,622
				Filing Date	February 9, 2000
				First Named Inventor	Mills
				Group Art Unit	1754
				Examiner Name	Langel
Sheet	1	of	9	Attorney Docket Number	62-226-8AC4-DIV2

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee of Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code* (if known)			
		3,253,884		Jung, et al	05-31-1966	
		4,155,712		Taschek	05-22-1979	
		4,337,126		Gilligan III, et al	06-29-1982	
		4,353,871		Bartlett, et al	10-12-1982	
		4,702,894		Cornish	10-27-1987	
		4,808,286		Angelo II	02-28-1989	
		5,593,640		Long, et al	01-14-1997	
		5,789,744		Spence, et al	08-04-1998	

FOREIGN PATENT DOCUMENTS								
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		Office ³	Number ⁴	Kind Code ⁵ (if known)				

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		Abelès, Ed. Chapter 9, "Structure of Trapped Electron and Trapped Hole Centers in Alkali Halides 'Color Centers'." <i>Optical Properties of Solids</i> , 1972, pp. 718-754.	
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		Clark, et. al. "Excess Energy Cell Final Report." April 1995.	
		Delbecq et al. "Pragmatic Resonance Investigation of Irradiated KCl Crystals Containing U-Centers." <i>Phys. Rev.</i> , Vol 104, Nov 1, 1956, pp. 599-604.	
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		Fujimoto, et. al. "Ratio of Balmer line intensities resulting from dissociative excitation of molecular hydrogen in an ionizing plasma." <i>J. Appl. Phys.</i> , Vol 66, No 6, Sept. 1989, pp. 2315-2319.	
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		Haus. "On the radiation from point charges." <i>American Journal of Physics</i> , Vol 54, No 12, December 1986. Pp. 1126-1129.	
		Hayashi, Shigenobu. "Accurate determination of ¹ H Knight shifts in Mg ₂ NiH _x and MgH _x by means of high-speed magic angle spinning." <i>Journal of Alloys and Compounds</i> , Vol 248, 1997, pp. 66-69.	
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		Hollander, et. al. "Vacuum ultraviolet emission from microwave plasmas of hydrogen and its mixtures with helium and oxygen." <i>J. Vac. Sci. Technol.</i> , A12 (3), May/June 1994, pp.879-882.	
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		Kolos, et. al. "Accurate Adiabatic Treatment of the Ground State of the Hydrogen Molecule*." <i>Journal of Chemical Physics</i> , Vol 41, No 12, Dec 1964, pp. 3663-3673.	
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		Merzbacher, Eugen. "Quantum Mechanics." 1961, p. 198.	
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		Radavanov, et. al. "Ion Kinetic-Energy Distributions and Balmer- α Excitation in Ar-H ² Radio-Frequency Discharges." <i>J. Appl. Phys.</i> , Vol 78, No 2, July 1995, pp. 746-756.	
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		Tolman, Richard C. "The Principles of Statistical Mechanics." <i>California Institute of Technology</i> , 1979, pp. 180-188.	
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	58	R. L. Mills, "Classical Quantum Mechanics," Physics Essays, Vol. 16, No. 4, December, (2003), pp. 433-498. (<i>Web Publication Date: May 23, 2002.</i>)	
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				Application Number	09/501,622
				Filing Date	02/09/2000
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	10	of	12	Attorney Docket Number	8ac4-D2

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		D. Luggenholscher, U. Czarnetzki, and H.F. Dobe Institut fur Laser-und Plasmaphysik, Universitat Essen, Germany, "Investigations on Electric Field Distributions in a Microwave Discharge in Hydrogen"	
		Technology Insights, "Hydro Catalysis Technical Assessment," (Part of 09/009,837 paper no.: 20050207 This document was submitted by R. Mills on 7/17/02 in copending application 09/669,877).	
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Examiner Signature		Date Considered	
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		E. Kovacevic, I. Stefanovic, J. Berndt, and J. Winter, "The Dynamic Response of the Plasma on the Dust Formation in Ar/C ² H ² Rf Discharges." < http://www.rcpig.uni-greifswald.de/proceedings/data/kovacevic-1 >	
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		Quantum Physics 301, Paradoxes and Interpretation", < http://www.teach.phy.bris.ac.uk/Level30100/CourseMaterials/paradoxes.pdf >	
		The Internet Encyclopedia of Philosophy, "Logical Positivism", < http://iep.utm.edu/logpos.htm >	
		H. G. Kuhn, F. R. S., "Atomic Spectra", Longmans, Green & Co., Ltd., London/Harlow 1969 (2 nd ed.).	
		Anthony J. Marchese, Ph. D., Peter Jansson, Ph. D., P.E., John I. Schmalzel, Ph. D., P.E., "The Blacklight Rocket Engine", NIAC Phase 1 Final Report (May 1-November 30, 2002). www.niac.usra.edu/files/studies/final_report/	
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